

**SPECIFICATIONS AND  
PARTS FOR  
- R6730 -**

**MANIPULATION  
PROOF**

# **COMBINATION LOCK**

**(Supersedes M-6730 MP)**

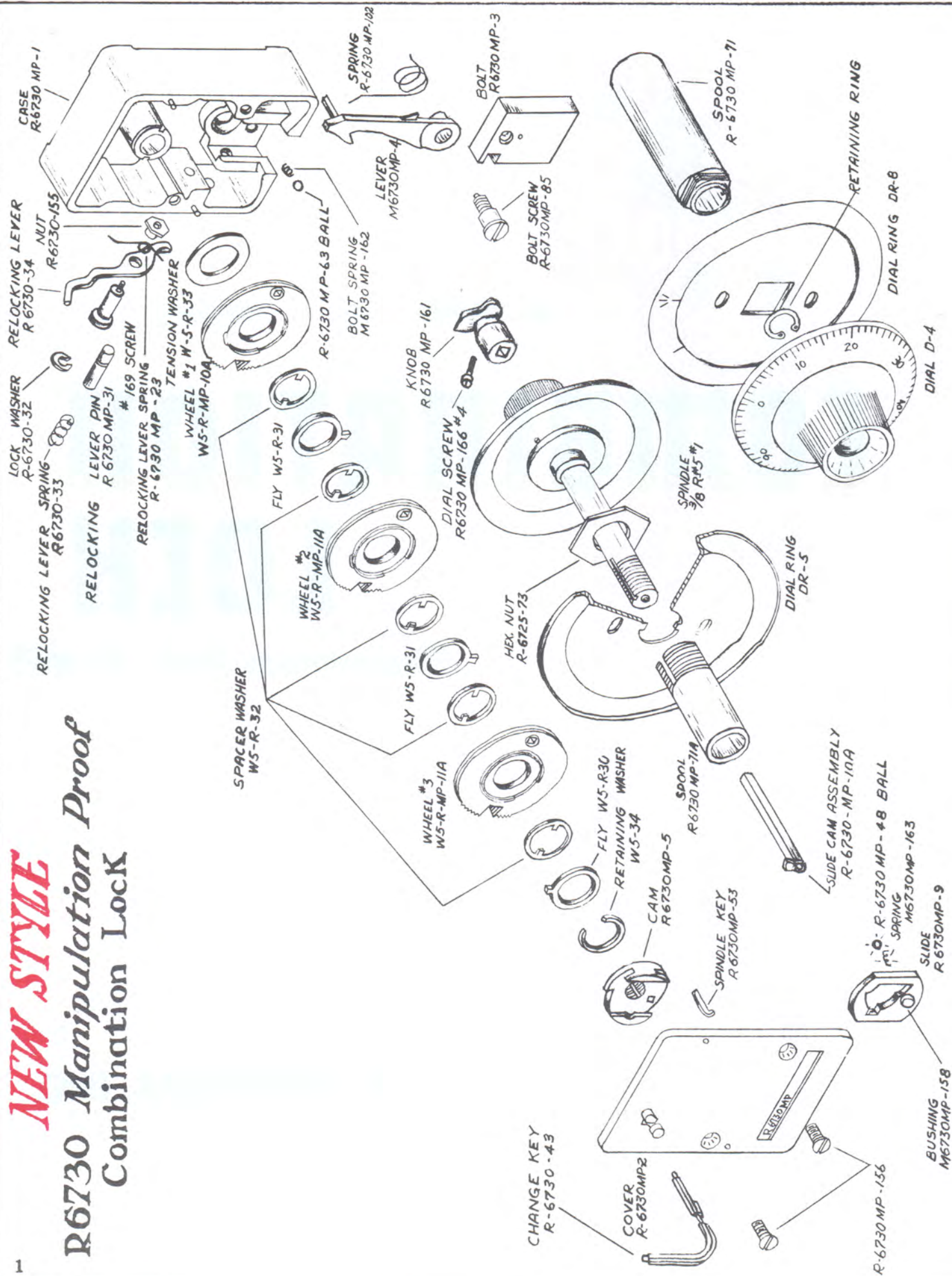


**SARGENT & GREENLEAF, INC.**

**ROCHESTER, N. Y.**



# STYLISH MEN



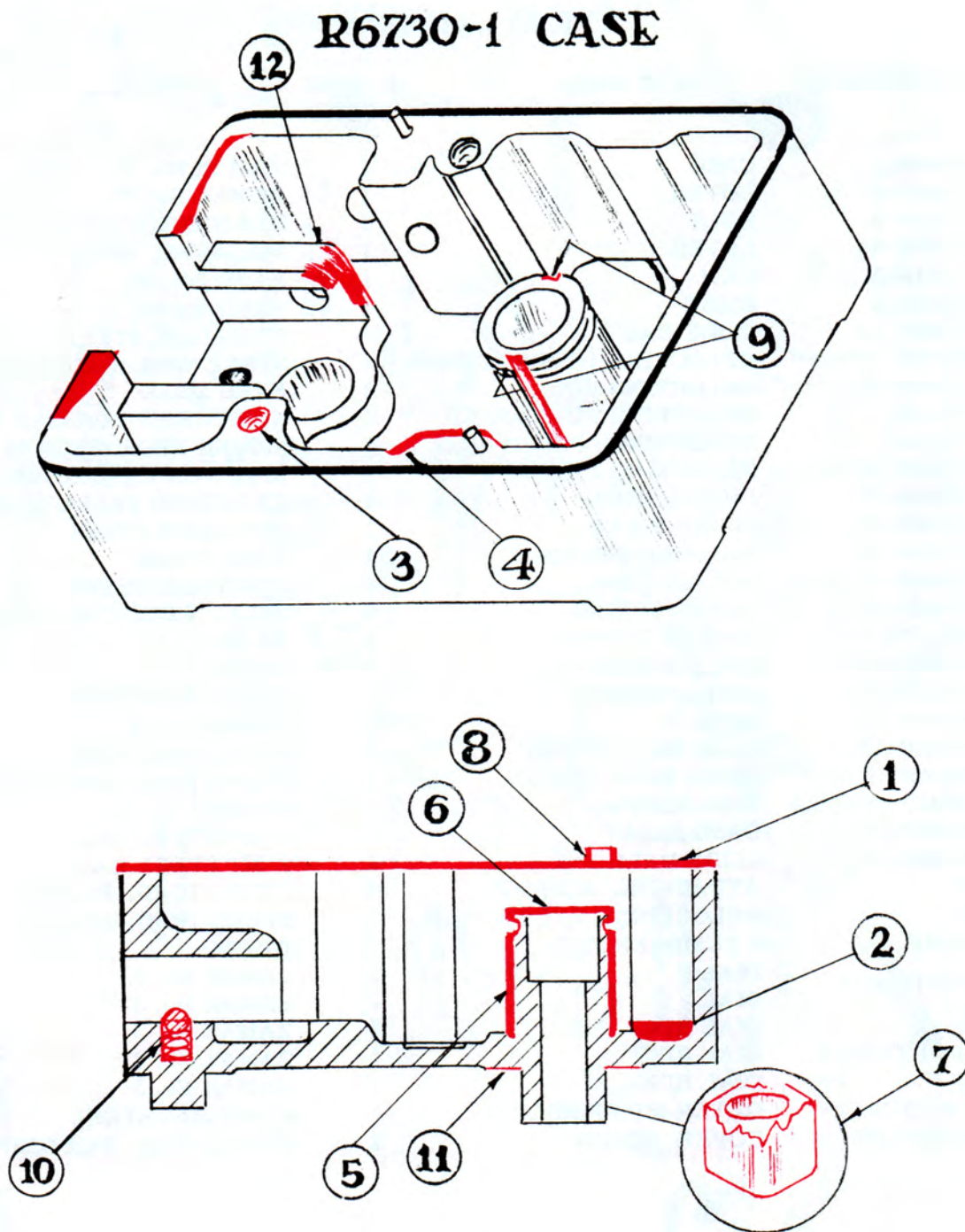
# R-6730MP COMBINATION LOCK

## PART LIST

PART NUMBER	PART NAME	NO. PER LOCK	MATERIAL
R-6730MP-1	CASE	1	ZAMAK No. 3
R-6730MP-2	COVER	1	ZAMAK No. 3
R-6730MP-3	BOLT	1	STAINLESS STEEL
R-6730MP-4	LEVER	1	MAGANESE BRONZE
R-6730MP-5	CAM	1	HARD BRASS
R-6730MP-9	SLIDE	1	HARD BRASS
R-6730MP-10	SLIDE CAM	1	STAINLESS STEEL
R-6730-23	RELOCKING LEVER SPRING	1	STEEL WIRE (CAD. PLATE)
R-6730MP-31	RELOCKING PIN	1	HARD BRASS
R-6730-32	RELOCKING PIN WASHER	1	HARD DRAWN BRASS
R-6730-33	RELOCKING PIN SPRING	1	SPRING PHOS. BRONZE
R-6730MP-34 R&L	RELOCKING LEVER	1	H. H. NON LEADED BRASS
R-6730MP-43	CHANGE KEY	1	EXTRUDED STEEL (CAD. PLATE)
R-6730MP-53	SPINDLE KEY	1	STAINLESS STEEL
R-6730MP-54	CAM DRIVING PIN	1	HARD BRASS
R-6730MP-85 No. 1	BOLT SCREW	1	STAINLESS STEEL
R-6730MP-102R	LEVER SPRING	1	STEEL WIRE (CAD. PLATE)
R-6730-155 No. 1	SPACER BUSHING	1	BRASS
R-6730MP-158	BALL BUSHING	1	BRASS
R-6730MP-160	INNER SPINDLE	1	STAINLESS STEEL
R-6730MP-161	KNOB	1	ZAMAK No. 3
R-6730MP-162	CASE BALL SPRING	1	STEEL WIRE (CAD. PLATE)
R-6730MP-163	SLIDE BALL SPRING	1	STEEL WIRE (CAD. PLATE)
R-6730MP-166 No.4	DIAL SCREW	1	BRASS
R-6730MP-63	CASE BALL	1	3/16" STEEL BALL
R-6730MP-48	SLIDE BALL	1	3/32" STEEL BALL
R-108	ATTACHING SCREWS	1	STEEL (CAD. PLATED)
R-169	RELOCKING LEVER SCREW	1	STEEL (CAD. PLATED)
W5-R-MP	3 TUMBLER SET	1	BRASS
D-1)	DIAL	1	ZAMAK No. 3
D-4) OPTIONAL	DIAL	1	ZAMAK No. 3
DR-4)	DIAL RING	1	ZAMAK No. 3
DR-5) OPTIONAL	DIAL RING	1	ZAMAK No. 3
DR-8)	DIAL RING	1	ZAMAK No. 3
3/8R-No.5-No.1	OUTER MP SPINDLE	1	STAINLESS STEEL
R-6730MP-156	COVER SCREW	2	STEEL (CAD. PLATED)



**EXPLANATION OF ALTERATIONS INCORPORATED IN  
NEW MODEL COMBINATION LOCK R6730MP, (FORMERLY M6730MP)**

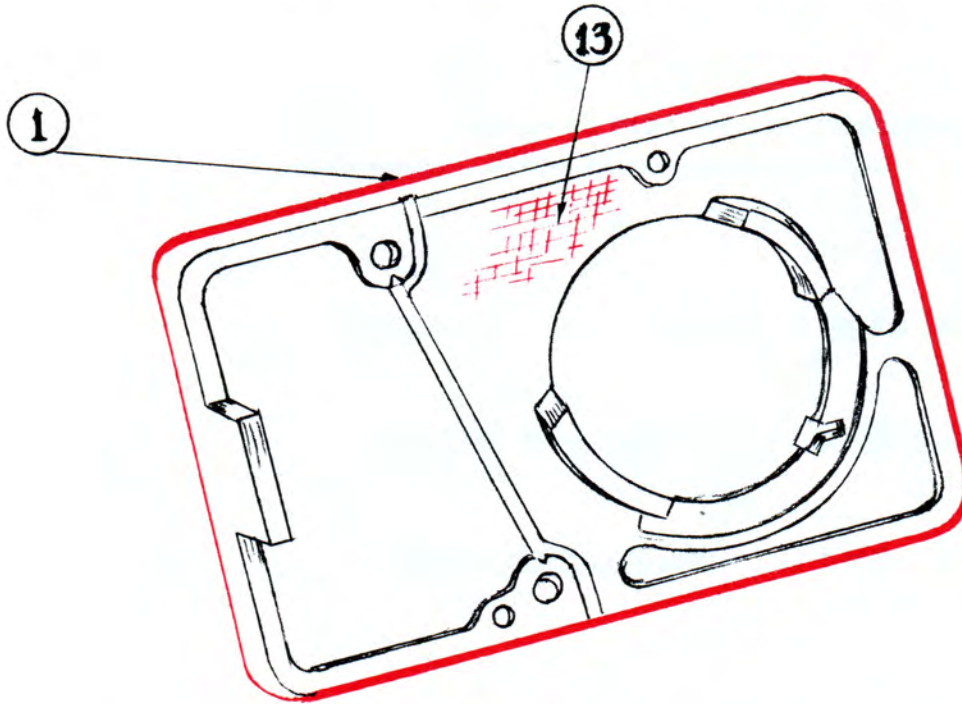


- 1) Material added to walls of case and cover.
- 2) Internal bosses added to case for (4) attaching screws.  
During safe or cabinet construction, distortion may occur when drill resistant or mounting plates are hardened or welded. Internal bosses and heavier walls eliminate distortion of the lock case when the lock is attached to these uneven surfaces.

- 3) Cover attaching screw-hole relocated.  
The previous location of the cover screw necessitated the small curve on the top side of the lever. Moving the screw permits a stronger lever.
- 4) Material added to internal boss in lock case.  
Improves resistance against punching of bolt.
- 5) Outside diameter of tumbler post enlarged.  
Enlarged tumbler post permits smoother operation of tumblers.
- 6) Material added to length of tumbler post.  
Allows firmer grip to the retaining washer holding the tumbler assembly in place.
- 7) Optional square hub for spool.  
This enables four positions of installation by rotating the spool to desired position in relation to the case.
- 8) Diameter of case and cover locating pins increased.  
Eliminates pin breakage under severe treatment.
- 9) Double keyslot on tumble post.  
Double guide on mating spacer washer will improve tumbler assembly operation.
- 10) Spring-loaded ball inserted in throat of case.  
Countersink added to bolt to accomodate ball.  
Ball is located in throat of case. Bolt, nearing extended or locked position, firmly holds, allowing a minimum of play between internal case shoulder and end of lever. Improves performance in running of combination due to the proper positioning of the lever fence.
- 11) .005" boss added between base of case and spool hub.  
Boss is added for attaching spool to case.
- 12) Bearing boss for relocking lever pin extended.  
Assists in properly guiding the pin.

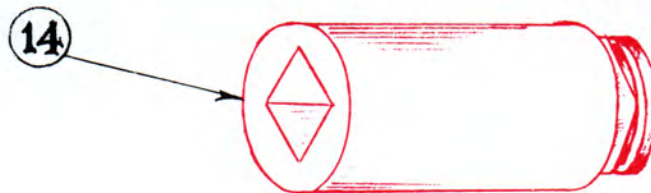


## R6730MP-2 COVER



- 13) Material removed inside cover for lever relief.  
**Eliminates possibility of lever binding on cover.**

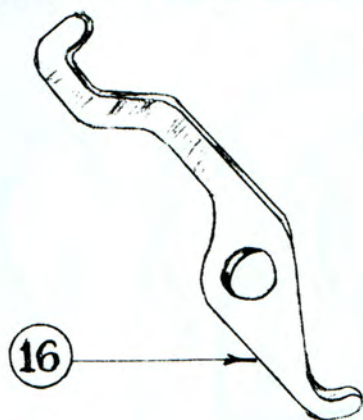
## R6730MP-71 SPOOL



- 14) New style spool, with internal and external squares on opposite ends of spool.

**Internal square accommodates square hub of case (as specified in alteration 7) while external square mates with square in dial ring, resulting in perfect alignment between dial marks on dial ring and mechanism of the lock. Affords four possible positions of application to safe or cabinet.**

## R6730 -34 RELOCKING LEVER



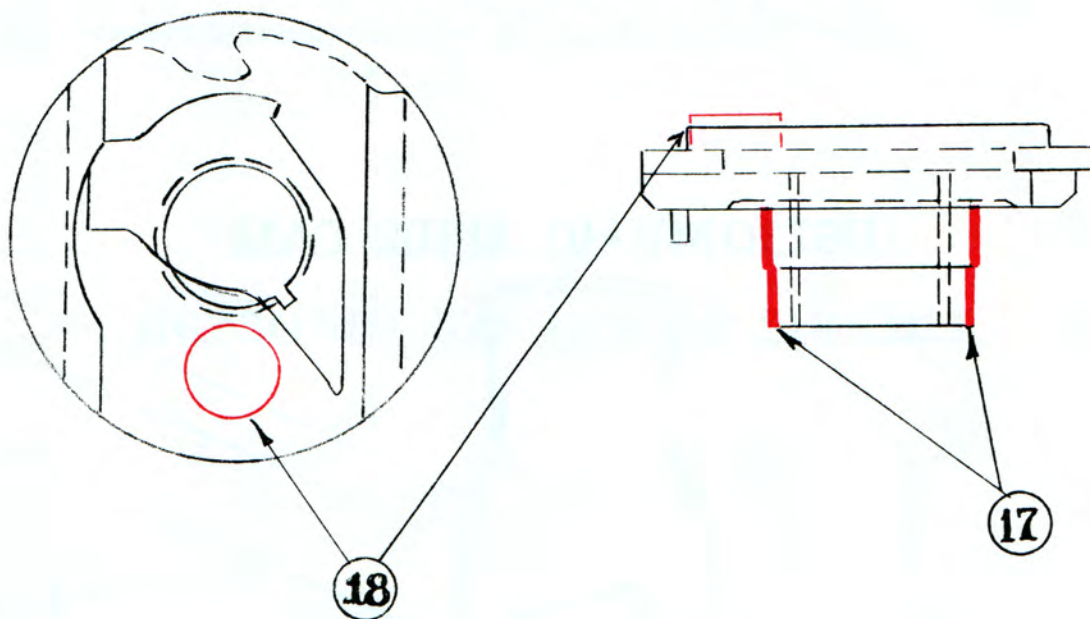
## R-169 SCREW



- 15) New style relocking lever screw.
- 16) New style relocking lever.

Relocking device redesigned to release when cover is distorted or removed, also allowing sufficient clearance between the relock arm and the cam and tumbler pack. Insures positive operation.

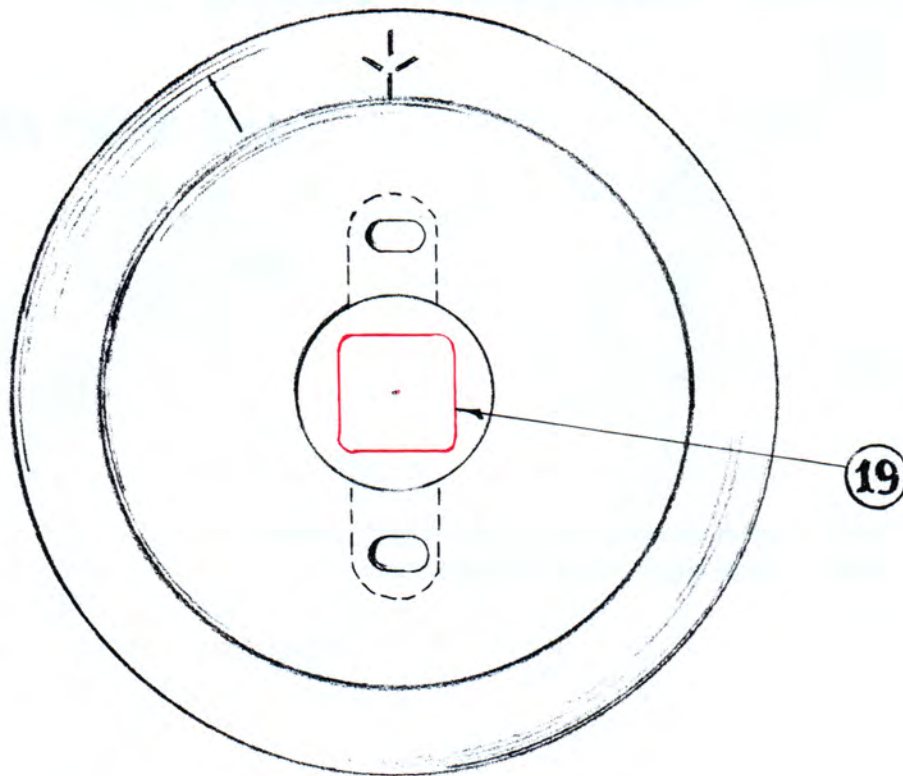
## R6730MP-5 CAM



- 17) Outside diameter of cam bearing hub increased.  
Enlarged bearing hub allows greater rigidity around broached keyway.
- 18) 1/8" diameter ball used in slider.  
Slide operates with more momentum due to the increased tension created by the spring and larger ball.



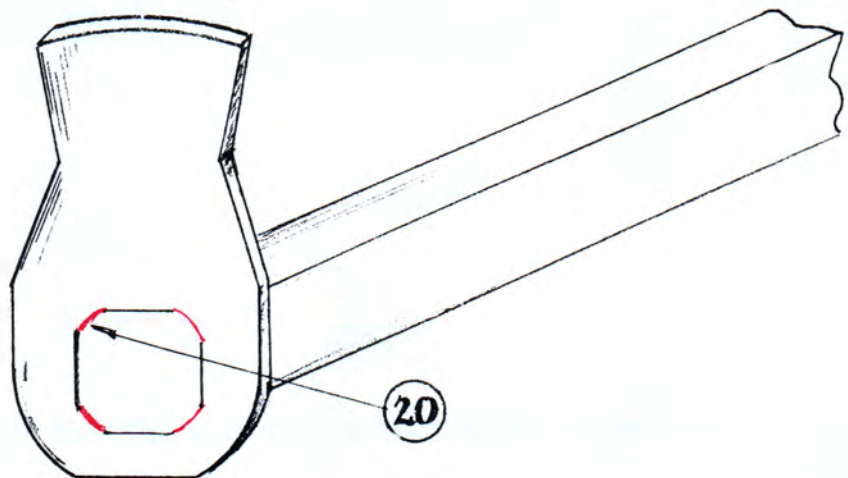
## DR-8 DIAL RING



19) Optional square in dial ring.

Square in ring replaces original guide fingers that normally engaged with the groove in spool. Sawing operation generally left excess burrs and retarded a good bearing surface. Revision allows smoother operation and eliminates spool nut.

## R6730 MP-10 SLIDE CAM

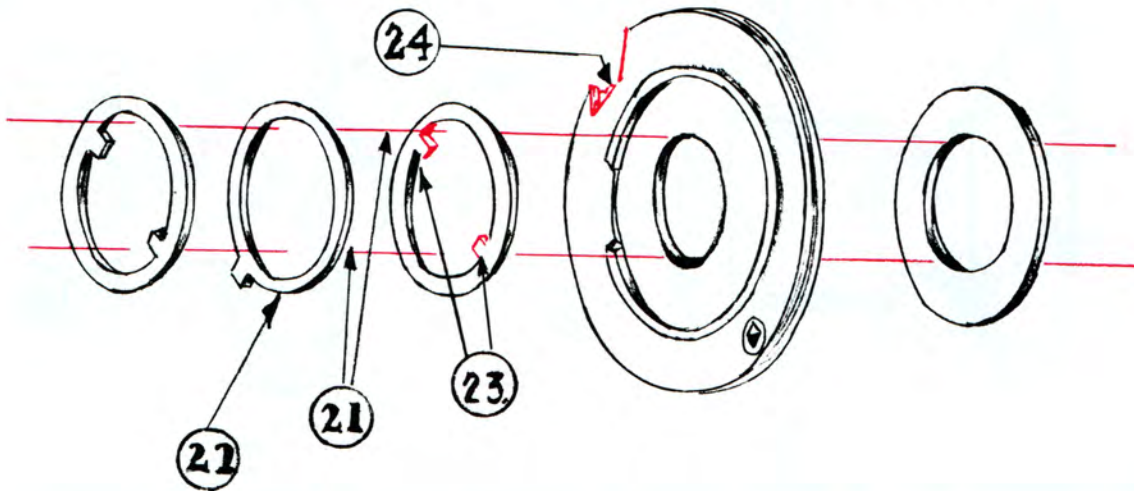


20) Radii added to corners of square hole in slide cam.

Added radii strengthens cam. Brazing of slide cam to inner spindle eliminates No. 2-56 screw and washer. Affords stronger unit and checks possibility of slippage between inner spindle and slide cam.

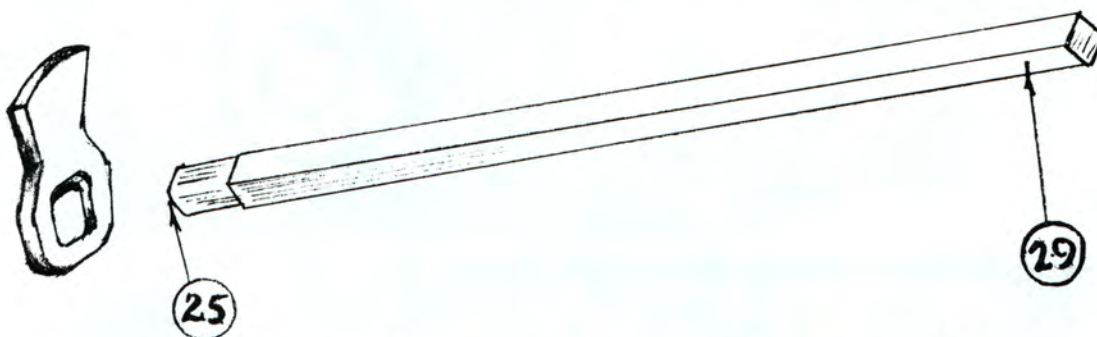


## W5-R-MP WHEEL PARTS



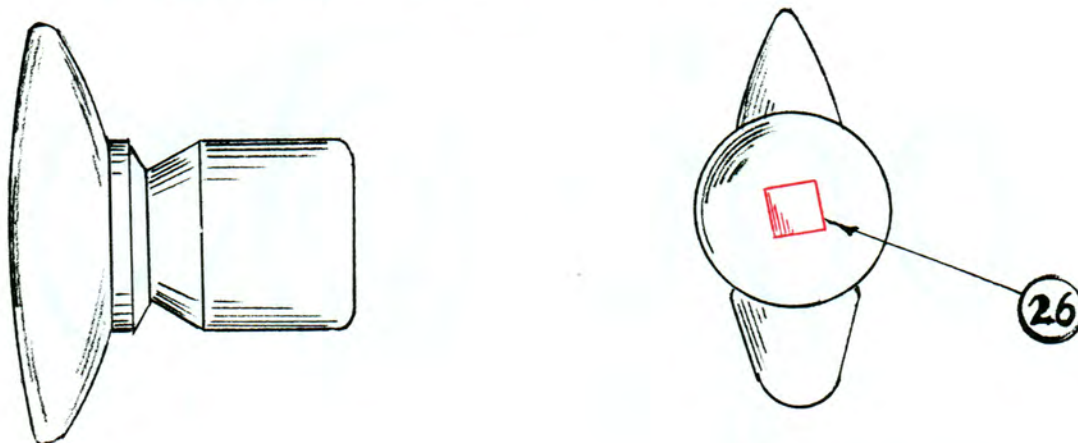
- 21) Hole diameter of wheel pack enlarged.  
Hole is enlarged to accommodate bigger tumbler post on case.
- 22) Flys altered.  
Revised to accommodate enlarged tumbler post.
- 23) Double guide in spacer washer mates with tumbler post.  
Additional guide improves wheel pack operation.
- 24) Present straight tumbler gating changed to 8° angle.  
Angle of lever fence and wheel gating is altered to conform to the arc of travel of the fence.

## R6730 MP-160 INNER SPINDLE



- 25) Radii added to square corners on inner spindle.  
Altered to mate with cam.
- 29) Entire inner spindle made square.  
Square spindle allows 4-position application and allows adjustment to size of door by cutting off spindle end.

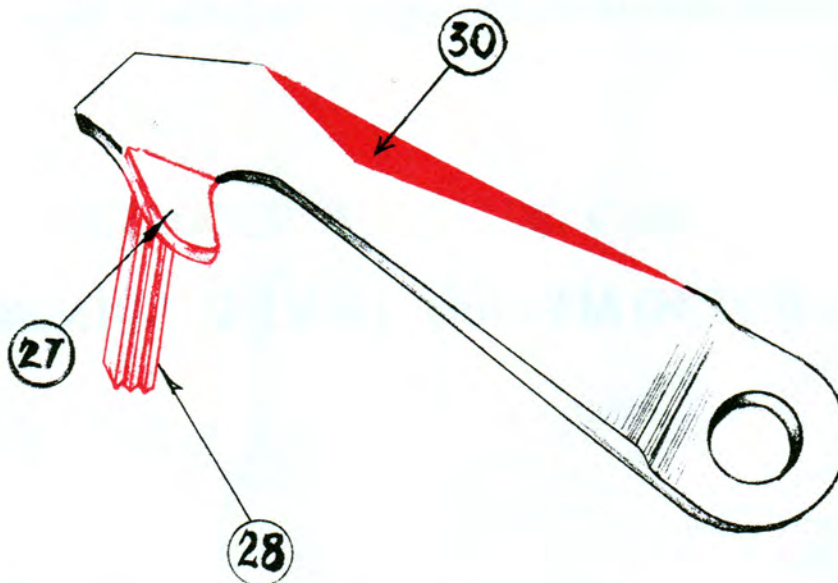
## R6730 MP-161 KNOB



- 26) Square hole in knob replaces present round hole and groove to allow for square inner spindle.

Permits 4-position application, and one-half inch adjustment.

## R6730MP-4 LEVER



- 27) Material added to bearing section of lever.  
Permits greater bearing surface of the cam on the lever.
- 28) Lever fence altered to conform with wheel gating.  
Angle of lever fence and tumbler gating is changed so that it will follow the arc of travel of the fence.
- 30) Lever arch filled in.  
adds strength to lever



LOCK WASHER  
6730-32

LEVER SPRING  
6730-33

RELEASE LEVER  
6730-34

NUT  
6730/35

--- CASE ---	PRESSURE CAST	Bronze plated
--- COVER ---	PRESSURE CAST	Bronze plated
--- BOLT ---	STAINLESS STEEL	
--- LEVER ---	MANGANESE BRONZE	(APPROXIMATELY 90,000 P.S.I.)



# **SARGENT & GREENLEAF PRODUCTS ILLUSTRATED IN SEPARATE BROCHURES**

CABINET AND WIRE WORKERS LOCKS

SCHOOL WARDROBE HARDWARE

SAFE DEPOSIT BOX LOCKS

COMBINATION LOCKS

PANIC EXIT DEVICES

PRISON LOCKS



SINCE 1857

CONTRACT FACILITIES FOR NON-FERROUS CASTINGS, HEAT TREATING,  
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